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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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Alan L. Ferguson

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EXAMINER

CHEN, QING

ART UNIT

PAPER NUMBER

2191

MAIL DATE

DELIVERY MODE

06/05/2008

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/016,785	Applicant(s) FERGUSON ET AL.	
	Examiner Qing Chen	Art Unit 2191	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 11 December 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-27 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-27 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. This Office action is in response to the BPAI decision filed on December 11, 2007.
2. **Claims 1-27** are pending.

In view of the Board of Patent Appeal's decision mailed on December 11, 2007, PROSECUTION IS HEREBY REOPENED. **A NEW GROUNDS OF REJECTION** is set forth below.

To avoid abandonment of the application, appellant must exercise one of the following two options:

(1) file a reply under 37 CFR 1.111 (if this Office action is non-final) or a reply under 37 CFR 1.113 (if this Office action is final); or,

(2) initiate a new appeal by filing a notice of appeal under 37 CFR 41.31 followed by an appeal brief under 37 CFR 41.37. The previously paid notice of appeal fee and appeal brief fee can be applied to the new appeal. If, however, the appeal fees set forth in 37 CFR 41.20 have been increased since they were previously paid, then appellant must pay the difference between the increased fees and the amount previously paid.

A Supervisory Patent Examiner (SPE) has approved of reopening prosecution by signing below:

/Donald Sparks/

Acting Director of TC 2100

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. **Claims 1-4, 6-17, and 19-27** are rejected under 35 U.S.C. 103(a) as being unpatentable over **US 6,529,784 (hereinafter “Cantos”)** in view of **WO 97/46932 (hereinafter “Lee”)** and **US 5,517,434 (hereinafter “Hanson”)**.

Per claims 1, 12, and 26:

-updating software installed on a...machine, the...machine having at least one non-volatile memory for storing the software, comprising:

-a remote data storage system for storing identifying information of said software;

(Cantos: Col. 2, lines 29-30, “...agent for collecting configuration, diagnostic, frequency of use of other information from the target computer system...”)

-a remote processor for monitoring said remote data storage system to determine if updates are available for said software;

(Cantos: FIG. 1, col. 2, lines 50-52, "...components of the system for monitoring target computer systems and communicating software information to target computer system users.")

-a remote communications system operably connected to said remote processor, said remote communications system receiving said available updates from said remote processor and relaying said available updates to said...machine for storage in said non-volatile memory.

(Cantos: Col. 6, lines 13-21, "The control server may also access information in the KB to determine when the new software packages are available to customers. Upon finding that a new software package is available, the control server may send a general message to all agents communicating with the control server that the software package is available. Alternatively, the control server may send a message that the software package is available to only those agents whose target computer system are compatible with the new software package.")

Cantos failed to specify that the update would be to non-volatile memory. However, Lee disclosed a remote updating system and method and specified (page 8, lines 12-13) that "hardware, firmware, or software in the client system" or (page 6, line 35) 'ROM' could be upgraded. Hardware and firmware are non-volatile.

Cantos / Lee failed to disclose that the invention was installed on a 'work machine.'

However, Hanson disclosed updating software installed on a work machine. Col. 17, lines 45-61, “In the early embodiment as intended to be used on a vehicle (e.g. farm tractor) (work machine), the terminal contained data storage means mounted at 370 (e.g. including one-half megabyte of RAM, and EPROM) and microcomputer operated control means mounted at 380, with the EPROM containing downloading/uploading control programming (updating software installed on a work machine) and application programming in RAM storage of means 370 for controlling on board devices and for receiving and storing data from a multiplicity of on-board analog and digital sensors as a basis for such control. The rechargeable battery means 360 received charging current from vehicle electric power while the terminal was in the vehicle mounted receptacle. The battery means facilitated transport of the terminal means to another receptacle e.g. associated with a personal computer system, and generally insured against loss of data from random access memory of the data storage means at 370.”

Therefore, it would have been obvious, to one of ordinary skill in the art, at the time of the invention, to modify Cantos / Lee to include updates to memory on ‘work machines’ as suggested by Hanson, because vehicle controllers / computers are known in the art and maintaining, updating the controllers enhances the value of such equipment. The ability to (Hanson, col. 1, line 53) “survive rough handling” was suggested by Hanson to demonstrate a computer / controller in a ‘work environment,’ Hanson disclosed the need to download / upload control programming and application programming (col. 2, lines 6-12), a data capture system, which could be quickly and simply loaded in a relatively foolproof manner, without requiring attention and care from operators engaged in

physically demanding and arduous work routines.” Thus Hanson showed the advantage of updating controllers / computers on a ‘work machine.’

Per claims 2, 13, 17, and 27:

-an interface for notifying an owner of said work machine of said available update.

(Cantos: FIG. 2B, #204, #206, col. 8, lines 44-55, “If the message is related to the target computer system, the agent determines whether the information is to be sent to the user...”)

Per claims 3, 14, and 15:

-said interface allows said owner to communicate acceptance of said available update and wherein said available update is relayed to said work machine upon said owner communication acceptance.

(Cantos: FIG 2B, #206, #210, col. 8, lines 55-58, “...initiates the presentation of relevant information to the user, either through the management tool GUI, electronic mail, a printed report or some other form...user input may be required for further action”, col. 9, lines 3-5, “...after communicating the relevant information to the user, the agent would proceed to block and would perform these download and installation functions if instructed to do so by the user...”

Cantos / Hanson fail to specifically state “update is relayed to said machine upon said owner communicating said acceptance.” However, Lee disclosed (page 7, lines 13-14)

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“process is useful for upgrading a client system in order to modify it based on payment of an appropriate agreed upon price...” and (page 7, lines 32-34), “program proceeds to the ‘receive upgrade cost from server’...then goes to the ‘is upgrade cost acceptable?’” Lee more explicitly demonstrates owner acceptance. Therefore, it would have been obvious, to one of ordinary skill in the art, at the time of the invention, to modify Cantos, to include owner communicating acceptance, because Cantos also relates to updates to owner’s computers, and suggests that fees and payment may be involved (col. 10, lines 23-25 and col. 10, lines 42-44) in an updated software installation.

Per claim 4:

-said interface includes an electronic message for notifying said owner.

(Cantos: FIG. 2B, col. 8, lines 55-58, “...initiates the presentation of relevant information to the user...user input may be required for further action...”

Per claims 6 and 16:

-a billing system operably connected to said remote processor for billing said owner for said accepted available update.

(Cantos: Col. 2, lines 40-42, “...enrolling customers to receive computer system management services for a fee...”, col. 10, lines 23-25, “The software and hardware management services described above may be provided to subscribing customers for a fee”, col. 10, lines 42-44, “...payment status information, billing and subscription about the customer is stored...”

Per claims 7, 19, 20, and 21:

-a machine processor for polling said at least one non-volatile memory / in said work machine / to collect said identifying information;

(Cantos: Col. 4, lines 5-7, "An agent associated with a target computer interrogates the target computer of system information. The agent may be implemented using a polling-only approach...", col. 6, lines 30-34, "An agent may be multi-threaded to perform several operations at once...listen for software configuration and alert messages from the control server and transmit information to the management tool, control server, of KB..."

-a machine data storage system for storing said identifying information, said identifying information being relayed from said machine data storage system to said remote data storage system.

(Cantos: Col. 4, lines 46-48, "The agent transmits target computer system information in a communications network over network connection...", col. 7, line 66- col. 8, line 1, "...agent transmitting a message containing target computer system information to the control server through the communications network.

Per claims 8 and 22:

-a machine communication system operably connected to said machine processor, said machine communication system receiving said available update from said remote communication system.

(Cantos, Col. 8, lines 44-46, "If the message is related to the target computer system, the agent determines whether the information is to be sent...", col. 8, lines 55-58, "...initiates the presentation of relevant information to the user, either through the management tool GUI, electronic mail, a printed report or some other form...user input may be required for further action.")

Per claims 9-11 and 23-25:

-said remote communication system comprises wireless communication means /
cellular system / satellite system.

(Cantos: Col. 3, line 19, "...mobile/wireless...", col. 3, line 49, "...satellite, cellular...")

5. **Claims 5 and 18** are rejected under 35 U.S.C. 103(a) as being unpatentable over **Cantos**, **Lee**, and **Hanson** as applied to Claims 4 and 17 above, and further in view of **WO 00/78557 (hereinafter "Knepfle")**.

Per claims 5 and 18:

Cantos / Lee / Hanson fail to disclose "said electronic message includes a link to a web site allowing said owner to communicate acceptance of said available update."

However, Knepfle disclosed "said electronic message includes a link to a web site allowing said owner to communicate acceptance of said available update." page 14, lines 9-17, "In the event that the current version of the upload application 76 is more recent than installed version, a user may be presented with the option of downloading

the current version of the upload application 76. Specifically, an e-mail message may be communicated to the client machine 74 stating that a more recent version of the upload application 76 is available. The e-mail message would further include a location identifier (e.g., URL) that is user-selectable to commence initiation of the download of the client version of the upload application 76.”

Therefore, it would have been obvious, to one of ordinary skill in the art, at the time of the invention, to modify Cantos / Lee / Hanson to include said electronic message including a link to a web site allowing said owner to communicate acceptance of said available update. The modification would have been obvious for the reasons implied on page 14, lines 9-17 of Knepfle (i.e. because such a modification would allow the user the convenience of directly downloading the software update).

Status of action

The instant office action represents a **NON-FINAL** office action and therefore the Applicants are reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this action is set to expire **THREE MONTHS** from the mailing date of this action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the mailing date of this non-final action.

Conclusion

6. Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Qing Chen whose telephone number is 571-270-1071. The Examiner can normally be reached on Monday through Thursday from 7:30 AM to 4:00 PM. The Examiner can also be reached on alternate Fridays.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Wei Zhen, can be reached on 571-272-3708. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the TC 2100 Group receptionist whose telephone number is 571-272-2100.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Wei Zhen/

Supervisory Patent Examiner, Art Unit 2191

***/Donald Sparks/
Acting Director of TC 2100***

/QC/

June 2, 2008

